ELSEVIER

Wear 205 (1997) 247

WEAR

Author Index of Volume 205

Abdou, S., 228
Al-Hassani, S.T.S., 32
Antoniou, S.S., 178

Ball, A., 11
Barton, J.S., 47

Carolan, T.A., 47
Chen, D., 32
Chen, N., 64
Cheng, Y., 64
Clayton, P., 137
Comellas, L.R., 71

Endo, H., 186
Erdemir, A., 236
Esposito, L., 88

Fellows, L.J., 120
Fenske, G.R., 236

Gan, S., 32
Garbar, I.I., 240
Granick, S., 246
Gupt, K.M., 220

Halter, M., 236
Hand, D.P., 47
Hasegawa, N., 186
Hattori, T., 186
Hawley, M., 144
Hills, D.A., 120
Hirayama, T., 55
Hlaváček, M., 20
Honda, F., 153
Howard, R.L., 11
Hubbard, K., 144

Imada, Y., 153
Israelachvili, J., 246

Jin, H., 214
Jin, J.C., 214
Jin, Y.S., 77
Jones, J.D.C., 47

Kashiwagi, K., 40
Kato, K., 1, 55, 101
Khanna, A.S., 220
Khedkar, J., 220
Khurshudov, A., 1
Khurshudov, A.G., 101
Kidd, S.R., 47
Kitaoka, S., 40
Kodali, P., 144
Komac, M., 160

Larsen-Basse, J., 231
Lee, K.-Y., 200
Levine, T.E., 144
Lin, F., 97
Liu, W., 97
Long, M., 130
Ludema, K.C., 200
Luengo, G., 246

Marui, E., 186
Mei, Y., 28
Moneim, M.Es.A., 228

Nastasi, M., 144
Novak, S., 160
Nowell, D., 120

Olsson, M., 101

Pantazopoulos, G., 178
Pantelis, D.I., 178
Płaza, S., 71

Qu, J., 97

Rack, H.J., 130
Reuben, R.L., 47

Saito, T., 153
Sakai, M., 214
Sarumi, M., 32
Shipway, P.H., 169
Starczewski, L., 71
Stolarski, T.A., 206
Su, X., 137
Su, Y.L., 112

Tanaka, K., 186
Tesmer, J.R., 144
Tianfu, J., 28
Tobe, S., 206
Tsuji, T., 40
Tucci, A., 88

Walter, K.C., 144
Wan, Y., 15
Wang, F., 64
Wantang, F., 28
Wilkinson, P., 47
Wu, C.L., 214
Wu, Y., 64

Xu, J., 55
Xue, Q., 15

Yamaguchi, Y., 40
Yangzeng, Z., 28
Yao, S.H., 112
Yin, Z., 32
Yu, N., 144

Zhou, C.H., 77

Elsevier Science S.A.

ELSEVIER

Wear 205 (1997) 249–252

WEAR

Subject Index of Volume 205

Abrasive wear
the effect of accelerated material removal on roundness and residual stresses in ceramic balls, 206
comments on the wear mechanisms of impregnated diamond bits, 228
Alumina
fatigue wear mechanism of alumina, simulated by synchronized biaxial repeated indentations, 200
Aluminium alloy
surface finish parameters as diagnostics of tool wear in face milling, 47
Aluminum alloy
boundary lubrication of an aluminum alloy by tribopolymerization of a monomer under a fretting contact condition, 15
Angular dependence
the effect of plume divergence on the spatial distribution and magnitude of wear in gas-blast erosion, 169
Ankle joint
a central film thickness formula for elastohydrodynamic lubrication of cylinders with soft incompressible coatings and a non-Newtonian piecewise power-law lubricant in steady rolling motion, 20
Antiwear surface treatments
wear behavior of anti-galling surface textured gray cast iron using pulsed-CO_2 laser treatment, 178
Apparent volume increase
wear mechanisms in reciprocal scratching of polycarbonate, studied by atomic force microscopy, 1
Atomic force microscopy
wear mechanisms in reciprocal scratching of polycarbonate, studied by atomic force microscopy, 1

Bainite
a study of bainitic nodular cast iron for grinding balls, 97
Bearing
improving the surface behaviors of bearing by adding rare-earth Er implantation, 214
Biaxial repeated indentations
fatigue wear mechanism of alumina, simulated by synchronized biaxial repeated indentations, 200
Boundary lubrication
tribochemical reactions of dibenzyl and diphenyl disulphides in boundary lubrication, 71
the effectiveness of high temperature lubrication by in situ formation of graphite/MoS_2 films, 77

Carbon coating
tribology of unlubricated sliding contact of ceramic materials and amorphous carbon, 101
Cavitation erosion
structural changes after cavitation erosion for a Cr–Mn–N stainless steel, 28
Cemented carbide
friction in two-body abrasive wear of a WC–Co composite by SiC, 231
Central film thickness
a central film thickness formula for elastohydrodynamic lubrication of cylinders with soft incompressible coatings and a non-Newtonian piecewise power-law lubricant in steady rolling motion, 20
Ceramic coatings
on the performance and application of CrN coating, 112
Ceramics
the effect of accelerated material removal on roundness and residual stresses in ceramic balls, 206
Channeling
tribological properties of carbon- and nitrogen-implanted Si(100), 144
Coating life
tribology of unlubricated sliding contact of ceramic materials and amorphous carbon, 101
Coefficient of friction
comments on the wear mechanisms of impregnated diamond bits, 228
Composites
a study of the optimization mechanism of solid lubricant concentration in Ni/MoS_2 self-lubricating composite, 64
Contact fatigue
ratchetting strain experiments with a pearlitic steel under rolling/sliding contact, 137
Crack initiation
on the initiation of fretting fatigue cracks, 120
Critical strain
a model for erosion at normal impact, 32
Cr–Mn–N stainless steel
structural changes after cavitation erosion for a Cr–Mn–N stainless steel, 28
CrN
on the performance and application of CrN coating, 112
Cutting speed
comments on the wear mechanisms of impregnated diamond bits, 228
Cylinder-on-plate SRV test machine
on the performance and application of CrN coating, 112

Diamond bits
comments on the wear mechanisms of impregnated diamond bits, 228
Dibenzyl disulphide
tribochemical reactions of dibenzyl and diphenyl disulphides in boundary lubrication, 71
Diffusion
wear of cermet cutting tools coated with physically vapour deposited TiN, 160
Diphenyl disulphide
tribochemical reactions of dibenzyl and diphenyl disulphides in boundary lubrication, 71

En24 steel
surface finish parameters as diagnostics of tool wear in face milling, 47
Erosion model
a model for erosion at normal impact, 32

Elsevier Science S.A.

Face milling
surface finish parameters as diagnostics of tool wear in face milling, 47
Fatigue wear
fatigue wear mechanism of alumina, simulated by synchronized biaxial repeated indentations, 200
Flash annealing
preparation of ultralow-friction surface films on vanadium diboride, 236
Fragmentation
fatigue wear mechanism of alumina, simulated by synchronized biaxial repeated indentations, 200
the effect of load on the structure and wear of friction pair materials (example of low-carbon steel and copper), 240
Fretting fatigue
on the initiation of fretting fatigue cracks, 120
Friction
microstructural dependence of friction and wear behaviours in low purity alumina ceramics, 88
tribological properties of carbon- and nitrogen-implanted Si(100), 144
friction in two-body abrasive wear of a WC–Co composite by SiC, 231
Friction and wear
the transition of wear mode during the running-in process of silicon nitride sliding in water, 55
Friction pair materials
the effect of load on the structure and wear of friction pair materials (example of low-carbon steel and copper), 240

Grain size
fatigue wear mechanism of alumina, simulated by synchronized biaxial repeated indentations, 200
Grinding ball
a study of bainitic nodular cast iron for grinding balls, 97

Halo effect
the effect of plume divergence on the spatial distribution and magnitude of wear in gas-blast erosion, 169
Hardness
comments on the wear mechanisms of impregnated diamond bits, 228
High-temperature and high-pressure water
tribochemical wear theory of non-oxide ceramics in high-temperature and high-pressure water, 40
High temperature lubrication
the effectiveness of high temperature lubrication by in situ formation of graphite/MoS_2 films, 77
Hyper-eutectoid steel
research on the wear characteristics of hypereutectoid steel, 186

Implantation
tribological properties of carbon- and nitrogen-implanted Si(100), 144
Incompressible coating
a central film thickness formula for elastohydrodynamic lubrication of cylinders with soft incompressible coatings and a non-Newtonian piecewise power-law lubricant in steady rolling motion, 20
Ion implantation
improving the surface behaviors of bearing by adding rare-earth Er implantation, 214

Laser alloying
tribological behaviour of plasma and laser coated steels, 220
Lip formation
a model for erosion at normal impact, 32
Load-carrying performance
tribochemical reactions of dibenzyl and diphenyl disulphides in boundary lubrication, 71
Low friction
an analytical observation of the tribochemical reaction of silicon nitride sliding with low friction in aqueous solutions, 153
Low purity alumina ceramics
microstructural dependence of friction and wear behaviours in low purity alumina ceramics, 88
Lubricant application method
the effectiveness of high temperature lubrication by in situ formation of graphite/MoS_2 films, 77
Lubricants
boundary lubrication of an aluminum alloy by tribopolymerization of a monomer under a fretting contact condition, 15
the effectiveness of high temperature lubrication by in situ formation of graphite/MoS_2 films, 77
Lubricated wear
boundary lubrication of an aluminum alloy by tribopolymerization of a monomer under a fretting contact condition, 15
Lubrication of coated cylinders
a central film thickness formula for elastohydrodynamic lubrication of cylinders with soft incompressible coatings and a non-Newtonian piecewise power-law lubricant in steady rolling motion, 20

Magnetic recording
tribology of unlubricated sliding contact of ceramic materials and amorphous carbon, 101
Materials
the effectiveness of high temperature lubrication by in situ formation of graphite/MoS_2 films, 77
Mechanism
an analytical observation of the tribochemical reaction of silicon nitride sliding with low friction in aqueous solutions, 153
Metals
friction in two-body abrasive wear of a WC–Co composite by SiC, 231
Microhardness testing
wear behavior of anti-galling surface textured gray cast iron using pulsed-CO_2 laser treatment, 178
Microstructure
tribological properties of carbon- and nitrogen-implanted Si(100), 144
Microwear
wear mechanisms in reciprocal scratching of polycarbonate, studied by atomic force microscopy, 1
Mild and severe wear
the effect of load on the structure and wear of friction pair materials (example of low-carbon steel and copper), 240
Mo coatings
tribological behaviour of plasma and laser coated steels, 220
Modelling
the effect of plume divergence on the spatial distribution and magnitude of wear in gas-blast erosion, 169
Mode of $Mo^+ + N^+ + Er^+$ implantation
improving the surface behaviors of bearing by adding rare-earth Er implantation, 214
Molybdenum disulfide
a study of the optimization mechanism of solid lubricant concentration in Ni/MoS_2 self-lubricating composite, 64
Mo + Ni coatings
tribological behaviour of plasma and laser coated steels, 220

NaCl solution
an analytical observation of the tribochemical reaction of silicon nitride sliding with low friction in aqueous solutions, 153
Nitrate solution quenching
a study of bainitic nodular cast iron for grinding balls, 97
Nodular cast iron
a study of bainitic nodular cast iron for grinding balls, 97
Non-oxide ceramics
tribochemical wear theory of non-oxide ceramics in high-temperature and high-pressure water, 40

Normal impact
a model for erosion at normal impact, 32

Orthopaedic
ultrasonic in situ continuous wear measurements of orthopaedic titanium alloys, 130

Particle agglomeration
tribology of unlubricated sliding contact of ceramic materials and amorphous carbon, 101
Particle erosion
The effect of test temperature on the particle erosion performance of titanium aluminide alloys, 11
Pearlitic steel
ratchetting strain experiments with a pearlitic steel under rolling/sliding contact, 137
Pin-on-disc apparatus
microstructural dependence of friction and wear behaviours in low purity alumina ceramics, 88
Pin-on-disk wear testing
wear behavior of anti-galling surface textured gray cast iron using pulsed-CO_2 laser treatment, 178
research on the wear characteristics of hypereutectoid steel, 186
Plasma coatings
tribological behaviour of plasma and laser coated steels, 220
Plume divergence
the effect of plume divergence on the spatial distribution and magnitude of wear in gas-blast erosion, 169
Polycarbonate
wear mechanisms in reciprocal scratching of polycarbonate, studied by atomic force microscopy, 1
Power-law lubricant
a central film thickness formula for elastohydrodynamic lubrication of cylinders with soft incompressible coatings and a non-Newtonian piecewise power-law lubricant in steady rolling motion, 20
Pulsed-laser surface modification
wear behavior of anti-galling surface textured gray cast iron using pulsed-CO_2 laser treatment, 178

Rare-earth Er
improving the surface behaviors of bearing by adding rare-earth Er implantation, 214
Ratchetting strain
ratchetting strain experiments with a pearlitic steel under rolling/sliding contact, 137
Removed volume
a model for erosion at normal impact, 32
Residual stress
the effect of accelerated material removal on roundness and residual stresses in ceramic balls, 206
Residual tensile stress
a model for erosion at normal impact, 32
Rolling/sliding contact
ratchetting strain experiments with a pearlitic steel under rolling/sliding contact, 137
Roundness
the effect of accelerated material removal on roundness and residual stresses in ceramic balls, 206
Running-in
the transition of wear mode during the running-in process of silicon nitride sliding in water, 55

Self-lubricating property
a study of the optimization mechanism of solid lubricant concentration in Ni/MoS_2 self-lubricating composite, 64
Shear stress amplitude
on the initiation of fretting fatigue cracks, 120
Si_3N_4
an analytical observation of the tribochemical reaction of silicon nitride sliding with low friction in aqueous solutions, 153
SiC and Al_2O_3 sliders
tribology of unlubricated sliding contact of ceramic materials and amorphous carbon, 101
Silicon nitride
the effect of accelerated material removal on roundness and residual stresses in ceramic balls, 206
Sliding in water
an analytical observation of the tribochemical reaction of silicon nitride sliding with low friction in aqueous solutions, 153
Solid films/coatings
the effectiveness of high temperature lubrication by in situ formation of graphite/MoS_2 films, 77
Solid lubricating film
a study of the optimization mechanism of solid lubricant concentration in Ni/MoS_2 self-lubricating composite, 64
Stainless steel
surface finish parameters as diagnostics of tool wear in face milling, 47
Structural changes
structural changes after cavitation erosion for a Cr–Mn–N stainless steel, 28
Structure
the effect of load on the structure and wear of friction pair materials (example of low-carbon steel and copper), 240
Surface hardness
tribological properties of carbon- and nitrogen-implanted Si(100), 144
Surface modification
improving the surface behaviors of bearing by adding rare-earth Er implantation, 214
Surface profile
surface finish parameters as diagnostics of tool wear in face milling, 47
Surface structure
an analytical observation of the tribochemical reaction of silicon nitride sliding with low friction in aqueous solutions, 153
Synovial fluid
a central film thickness formula for elastohydrodynamic lubrication of cylinders with soft incompressible coatings and a non-Newtonian piecewise power-law lubricant in steady rolling motion, 20

Temperature effects
The effect of test temperature on the particle erosion performance of titanium aluminide alloys, 11
TiC-based cermets
wear of cermet cutting tools coated with physically vapour deposited TiN, 160
TiN coatings
wear of cermet cutting tools coated with physically vapour deposited TiN, 160
Titanium
ultrasonic in situ continuous wear measurements of orthopaedic titanium alloys, 130
Titanium aluminides
The effect of test temperature on the particle erosion performance of titanium aluminide alloys, 11
Tribochemical reaction of disulphides
tribochemical reactions of dibenzyl and diphenyl disulphides in boundary lubrication, 71
Tribochemical theory
tribochemical wear theory of non-oxide ceramics in high-temperature and high-pressure water, 40
Tribochemical wear
the transition of wear mode during the running-in process of silicon nitride sliding in water, 55

Tribofilm formation
tribology of unlubricated sliding contact of ceramic materials and amorphous carbon, 101
Tribology
tribological behaviour of plasma and laser coated steels, 220
Tribopolymerization
boundary lubrication of an aluminum alloy by tribopolymerization of a monomer under a fretting contact condition, 15
Two-body abrasion
friction in two-body abrasive wear of a WC–Co composite by SiC, 231

Ultralow friction
preparation of ultralow-friction surface films on vanadium diboride, 236
Ultrasonic
ultrasonic in situ continuous wear measurements of orthopaedic titanium alloys, 130

Vanadium diboride
preparation of ultralow-friction surface films on vanadium diboride, 236

Water lubrication
the transition of wear mode during the running-in process of silicon nitride sliding in water, 55
Wear
microstructural dependence of friction and wear behaviours in low purity alumina ceramics, 88
ultrasonic in situ continuous wear measurements of orthopaedic titanium alloys, 130
tribological properties of carbon- and nitrogen-implanted Si(100), 144
wear of cermet cutting tools coated with physically vapour deposited TiN, 160
research on the wear characteristics of hypereutectoid steel, 186
tribological behaviour of plasma and laser coated steels, 220
Wear mechanism
a study of the optimization mechanism of solid lubricant concentration in Ni/MoS_2 self-lubricating composite, 64
Wear particles
the transition of wear mode during the running-in process of silicon nitride sliding in water, 55

X-ray diffraction
research on the wear characteristics of hypereutectoid steel, 186